Magnets, Superconductors and Cryostats
TE-MSC

EDMS No:1369459
Geneva, 27 March, 2014

MEMORANDUM

A/To:	S.Baird, M.Lamont
De/From:	D. Tommasini
Via:	L. Bottura
Cc :cc :	P.Collier, J.-M.Jimenez, R. Saban
Concerne/Subject:	Accessing normal conducting magnets in the CERN accelerator chain and experimental areas

Following recent discussions about electrical safety when performing interventions in the CERN accelerator chain or in the experimental areas, I would like to recall that:

- as a general rule the magnets have to be considered active electrical parts and can be approached only by personnel with adequate training and knowledge;
- the fact that, in many cases, the electrical connections are protected by covers, in general however with no IP rating, does not guarantee any specific level of protection against accidental contacts;
- the fact that the relevant power converter is "off" does not guarantee, alone, that a specific magnet is not potentially active.

For these reasons the magnet team cannot guarantee that magnets are electrically safe for any intervention when there is not a full consignation in place (including a lock-out, VAT and MALT-CC). Therefore, if access is granted without these conditions by any body (machine coordinators, operations groups or other), this shall be based under specific procedures and precautions agreed by all teams concerned and hierarchical levels, in order to guarantee the electrical safety of the personnel accessing the machine.